

In the Claims:

1. (Withdrawn) An antibody obtained by using, as an immunogen, a partial peptide of phosphorylated tau protein in a paired helical filament, said phosphorylated tau protein comprising the amino acid sequence of SEQ ID No. 1 and having a phosphorylation site at a serine residue at position 199 of SEQ ID No. 1, said partial peptide consisting of said serine residue at said phosphorylation site and a plurality of amino acid residues before and/or after said phosphorylation site, and said antibody specifically recognizing said phosphorylation site of said partial peptide.

Claims 2-5 (Cancelled)

6. (Withdrawn) A reagent kit for detecting Alzheimer's disease comprising one or more antibodies obtained by using, as an immunogen, a partial peptide of phosphorylated tau protein in a paired helical filament, said phosphorylated tau protein comprising the amino acid sequence of SEQ ID No. 1 and having a phosphorylation site at a serine residue at position 199 of SEQ ID No. 1, said partial peptide consisting of said serine residue at said phosphorylation site and a plurality of amino acid residues before and/or after said phosphorylation site, and said antibodies specifically recognizing said phosphorylation site of said partial peptide.

7. (Cancelled)

8. (Withdrawn) The reagent kit according to claim 23, wherein the partial peptide is SEQ ID NO: 2.

9. (Currently Amended) The method for detecting Alzheimer's disease according to claim 24 25, wherein the partial peptide is SEQ ID NO: 2.

10. (Withdrawn) An antibody specifically recognizing a partial peptide of a phosphorylated tau protein in a paired helical filament, said phosphorylated tau protein comprising the amino acid sequence of SEQ ID No: 1 and having a phosphorylation site at a serine residue at position 199 of SEQ ID No. 1 and one or more other phosphorylation site(s) at other position(s) of SEQ ID No. 1, said partial peptide consisting of said phosphorylation sites and a plurality of amino acid residues before and/or after said phosphorylation sites, and said antibody specifically recognizing said phosphorylation sites of said partial peptide.

11. (Withdrawn) The antibody according to claim 10, wherein said one or more other phosphorylation site(s) at other position(s) of SEQ ID No. 1 is selected from the group consisting of serine at position 198, serine at position 202, threonine at position 205, threonine at position 231, serine at position 235, serine at position 262, serine at position 396, threonine at position 403, serine at position 404, serine at position 409, serine at position 412, serine at position 413, and serine at position 422.

12. (Withdrawn) The antibody according to claim 10, wherein the partial peptide is 1 to 7 amino acid residues in length.

13. (Withdrawn) The antibody according to claim 12, wherein the partial peptide is 3 to 5 amino acid residues in length.

14. (Withdrawn) The antibody according to claim 10, which is a monoclonal antibody.

15. (Withdrawn) The antibody according to claim 10, wherein the partial peptide is SEQ ID NO: 5.

16. (Withdrawn) A reagent kit for detecting Alzheimer's disease comprising one or more antibodies specifically recognizing a partial peptide of a phosphorylated tau protein in a paired

helical filament, said phosphorylated tau protein comprising the amino acid sequence of SEQ ID No: 1 and having a phosphorylation site at a serine residue at position 199 of SEQ ID No. 1 and one or more other phosphorylation site(s) at other position(s) of SEQ ID No. 1, said partial peptide consisting of said phosphorylation sites and a plurality of amino acid residues before and/or after said phosphorylation sites, and said antibody specifically recognizing said phosphorylation sites of said partial peptide.

17. (Withdrawn) A method for detecting Alzheimer's disease comprising reacting one or more antibodies from the reagent kit according to claim 16, with a body fluid sample from an individual suspected of having Alzheimer's disease, to detect from the reactivity of said antibodies whether said individual has Alzheimer.

18. (Withdrawn) An antibody specifically recognizing a partial peptide of phosphorylated tau protein in a paired helical filament, said phosphorylated tau protein comprising the amino acid sequence of SEQ ID No. 1 and having a phosphorylation site at a serine residue at position 199 of SEQ ID No. 1, said partial peptide consisting of said serine residue at said phosphorylation site and a plurality of amino acid residues before and/or after said phosphorylation site, and said antibody specifically recognizing said phosphorylation site of said partial peptide.

19. (Withdrawn) The antibody according to claim 18, wherein the partial peptide is 1 to 7 amino acid residues in length.

20. (Withdrawn) The antibody according to claim 19, wherein the partial peptide is 3 to 5 amino acid residues in length.

21. (Withdrawn) The antibody according to claim 18, which is a monoclonal antibody.

22. (Withdrawn) The antibody according to claim 18, wherein the partial peptide is SEQ ID NO: 2.

23. (Withdrawn) A reagent kit for detecting Alzheimer's disease comprising one or more antibodies specifically recognizing a partial peptide of phosphorylated tau protein in a paired helical filament, said phosphorylated tau protein comprising the amino acid sequence of SEQ ID No. 1 and having a phosphorylation site at a serine residue at position 199 of SEQ ID No. 1, said partial peptide consisting of said serine residue at said phosphorylation site and a plurality of amino acid residues before and/or after said phosphorylation site, and said antibodies specifically recognizing said phosphorylation site of said partial peptide.

24. (Cancelled)

25. (New) A method for detecting Alzheimer's disease, comprising the steps of:

- (a) obtaining a brain sample or CSF sample from an individual,
- (b) reacting said sample with one or more antibodies obtained by using, as an immunogen, a partial peptide of phosphorylated tau protein in a paired helical filament, said phosphorylated tau protein comprising the amino acid sequence of SEQ ID NO: 1 and having a phosphorylation site at a serine residue at position 199 of SEQ ID NO: 1, said partial peptide consisting of phosphoserine residue at said phosphorylation site and a plurality of amino acid residues before and/or after said phosphorylation site, and said antibodies specifically recognizing said phosphorylation site of said partial peptide,
- (c) allowing specific binding of said antibodies to occur to said sample under appropriate incubation conditions, and
- (d) detecting the reaction of said specific binding of said antibodies with said sample as detecting that said individual has Alzheimer's disease.

26. (New) A method for detecting Alzheimer's disease, comprising the steps of:

(a) obtaining a brain sample or CSF sample from an individual,

(b) reacting said sample with one or more antibodies specifically recognizing a partial peptide of phosphorylated tau protein in a paired helical filament, said phosphorylated tau protein comprising the amino acid sequence of SEQ ID NO: 1 and having a phosphorylation site at a serine residue at position 199 of SEQ ID NO: 1, said partial peptide consisting of phosphoserine residue at said phosphorylation site and a plurality of amino acid residues before and/or after said phosphorylation site, and said antibodies specifically recognizing said phosphorylation site of said partial peptide,

(c) allowing specific binding of said antibodies to occur to said sample under appropriate incubation conditions, and

(d) detecting the reaction of said specific binding of said antibodies with said sample as detecting that said individual has Alzheimer's disease.

27. (New) The method for detecting Alzheimer's disease according to claim 26, wherein said partial peptide is SEQ ID NO: 2.